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PELICATION NO.	LILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09 758,713	01 E1 2001	Loren John Hoffbeck	1327	9528	
27310 75	90 03-12-2002				
PIONEER HI-BRED INTERNATIONAL INC.			EXAMINER		
7100 N.W. 62ND AVENUE P.O. BOX 1000			FOX, DAVID T		
JOHNSTON, IA 50131					
30111131011, 11			ART UNIT	PAPER NUMBER	
			1638 DATE MAILED: 03/12/2002	21	

Please find below and or attached an Office communication concerning this application or proceeding.

	09/758, 713 Hotheck			
Office Action Summary	Examiner	FO	$\times$	Group Art Unit
The MAILING DATE of this communication app	ears on the cov	er sheet be	neath the	correspondence address-
Period for Reply		2 -	_	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	TO EXPIRE	<b>ー</b> ノ	MONTH(	S) FROM THE MAILING DATE
<ul> <li>Extensions of time may be available under the provisions of 37 CF from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a</li> <li>If NO period for reply is specified above, such period shall, by defa</li> <li>Failure to reply within the set or extended period for reply will, by st</li> </ul>	a reply within the sta ult, expire SIX (6) M	atutory minimus	m of thirty (30 the mailing d	days will be considered timely.     ate of this communication .
Status				
Responsive to communication(s) filed on			<u> </u>	
This action is FINAL.				
Since this application is in condition for allowance exce accordance with the practice under <i>Ex parte Quayle</i> , 1			cution as t	o the merits is closed in
Disposition of Claims				
Claim(s) 1 - 4 8			is/are	pending in the application.
Of the above claim(s)				
Claim(s)			is/are	allowed.
Claim(s) 1-49			is/are	rejected.
Claim(s)				
Claim(s)			are s	ubject to restriction or election
Application Papers			requi	rement.
See the attached Notice of Draftsperson's Patent Draw	vina Review. PTC	D-948		
The proposed drawing correction, filed on	•		disapprov	ed.
The drawing(s) filed on is/are obj		• •	• •	
The specification is objected to by the Examiner.	·			
The oath or declaration is objected to by the Examiner.				
Priority under 35 U.S.C. § 119 (a)-(d)				
Acknowledgment is made of a claim for foreign priority  All Some* None of the CERTIFIED copies received.			•	
received in Application No. (Series Code/Serial Num	nher)			
received in this national stage application from the li	·			
*Certified copies not received:				·
Attachment(s)	_			
Information Disclosure Statement(s), PTO-1449, Paper	r No(s)		erview Sun	nmary, PTO-413
Notice of Reference(s) Cited, PTO-892				rmal Patent Application, PTO-15
Notice of Draftsperson's Patent Drawing Review, PTO-	948			
Off	ice Action Sum			
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U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.

Application/Control Number: 09/758,713

Art Unit: 1638

Applicants' intent on page 5 of the specification to deposit under all of the conditions of 37 CFR 1.801-1.809 is acknowledged.

Claims 1, 6, 21, 25, 37 and 40 are objected to for their inclusion of blanks "\_\_\_\_\_". It is assumed that the blanks will be replaced by the ATCC deposit accession number.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3, 5, 14, 16, 19, 20, 22, 24, 33, 35, 41, 43, 45, 46 and 48-49 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 3 and 22 are indefinite in their recitation of "wherein said plant is male sterile" which is confusing, since the claims from which they depend are not drawn to a male sterile plant. Replacement of the phrase with --further comprising a genetic factor conferring male sterility-would obviate this rejection.

Claims 5 and 24 are indefinite in their recitation of "the...protoplasts" which lacks antecedent basis in the claims from which they depend. Deletion of "the" before "cells" in line 1, and insertion of --of the tissue culture-- after "protoplasts" in line 1, would obviate this rejection.

Claims 14, 33, 41, 45 and 46 are indefinite in their recitation of "good", "hard", "above average", "excellent" and "adapted" which are unduly narrative and so fail to clearly characterize the degree of expression of the claimed trait or the claimed maize plant exhibiting the trait.

Application/Control Number: 09/758,713 Page 3

Art Unit: 1638

Claims 14, 33, 41, 45 and 46 are indefinite in their recitation of improper Markush terminology. See MPEP 2173.05(h). Insertion of --and-- before "adapted" would obviate this rejection.

Claims 16 and 35 are indefinite in their recitation of "[t]he maize plant breeding program" since the claims from which they depend are drawn to methods rather than breeding programs.

Replacement of the phrase with "[t]he method" would obviate this rejection.

Claims 19-20 and 48-49 are indefinite in their recitation of "[t]he single gene conversion(s) of claim" since the preceding claims are drawn to maize plants rather than single gene conversions. Replacement of "conversion(s)" with --conversion--, and insertion of --maize plant-after "conversion", would obviate this rejection.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/758,713

Art Unit: 1638

Claims 14, 33, 43 and 45-46 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Dowden (U.S. 5,880,339).

The claims are drawn to maize plants exhibiting two traits and which are derived from the exemplified maize inbred following an unspecified number of crosses for an unspecified number of generations with other plants of unspecified genetic complements, wherein at least one parent was the exemplified maize plant.

Dowden teaches an inbred maize plant developed in Iowa with good yield and adapted to the Northcentral region of the United States (see, e.g., columns 9-10, Table 1). The plant taught by Dowden differs from the claimed plant only in the derivation from a particular maize parent. However, the method of making the maize plant would not confer a unique characteristic to the resultant plant which would distinguish it from the prior art plant, given the loss of parental genotypic contribution with each outcross. See *In re Thorpe*, 227 USPQ 964, 966 (Fed. Cir. 1985), which teaches that a product-by-process claim may be properly rejectable over prior art teaching the same product produced by a different process, if the process of making the product fails to distinguish the two products.

Claims 1-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dowden (U.S. 5,880,339).

Dowden teaches an inbred Dent maize plant with yellow endosperm, dark green leaves, pink anther, green glume, green-yellow silk, pendant ear, and curved row direction (see, e.g., Table 4, columns 16-17), wherein the plant was developed by crossing other breeding lines

Art Unit: 1638

exhibiting desirable traits, wherein tissue culture or genetic engineering may be further employed to introduce other traits, and wherein the inbred can be used to produce other desirable hybrids (see entire patent).

Dowden does not teach a maize plant with red cobs.

It would have been obvious to one of ordinary skill in the art to utilize the maize plant taught by the reference and to modify that plant by breeding with other maize plants to incorporate other desirable agronomic traits, as suggested by the reference.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David T. Fox whose telephone number is (703) 308-0280. The examiner can normally be reached on Monday through Friday from 10:30AM to 7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson, can be reached on (703) 306-3218. The fax phone number for this Group is (703) 872-9306. The after final fax phone number is (703) 872-9307.

March 11, 2002

PRIMARY EXAMINER

GROUP 180-163 F